

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

263

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 06/18/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO: a. NAME OF CONSIGNEE ORD/OARS/EMD/CIN	
3. ORDER NO. 68HERC19F0191		4. REQUISITION/REFERENCE NO. PR-ORD-19-00974			
5. ISSUING OFFICE (Address correspondence to) CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency OARS EMD Cincinnati Division 26 West Martin Luther King Drive Mail Code: WG-12	
				c. CITY Cincinnati	e. ZIP CODE 45268
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.					
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 9300 LEE HIGHWAY				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORD NCEA PY1	
11. BUSINESS CLASSIFICATION (Check appropriate box(es))					
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
12. F.O.B. POINT					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 06/18/2019	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: DSHAMS					
	Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$172,005.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$172,005.00
c. CITY Durham			d. STATE NC	e. ZIP CODE 27711		17(i) GRAND TOTAL	

22. UNITED STATES OF AMERICA BY (Signature) 06/18/2019

23. NAME (Typed)
William M. Yates
TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER	CONTRACT NO.	ORDER NO.
06/18/2019	68HERC19D0003	68HERC19F0191

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Admin Office: CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268 Accounting Info: 19-20-C-262S000-000F84-2532-26A5C-19262SC907 -001 BFY: 19 EFY: 20 Fund: C Budget Org: 262S000 Program (PRC): 000F84 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262SC907-001 Period of Performance: 06/18/2019 to 06/17/2020 NEW HHRA Contract #TBD Task Order 0009				172,005.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$172,005.00

PERFORMANCE WORK STATEMENT

Task Order 68HERC19F0191

Title: NCEA Expert Recruitment to Support Health Assessment Activities

Specify Section & Paragraph SOW: A. Assessment Issues and Documents

Period of PERFORMANCE: CO award – [One Year from Award]

I. PURPOSE

The purpose of this task order is to provide services to the U.S. Environmental Protection Agency's (EPA) National Center for Environmental Assessment (NCEA), Office of Research and Development (ORD), in supporting the development of health assessments.

II. BACKGROUND

The Environmental Protection Agency's (EPA) National Center for Environmental Assessment (NCEA) provides scientific leadership for evaluating human health and ecological risks associated with exposure to physical, chemical, and biological stressors, including environmental pollutants. NCEA relies upon experts to support its mandated function of effectively analyzing, synthesizing, and communicating information in support of EPA's mission to protect human health and the environment.

III. STATEMENT OF WORK

A. Objective

The objective of this task order is to assist the NCEA in developing toxicological reviews, health assessments, and other related assessment materials. Contractor support will be requested to assist in the development of products that contribute to the development of chemical assessments and inform risk management decisions in support of EPA's program and regional offices.

B. Specific Requirements (Tasks)

Task 1: Establish Communication

Within 3 days of the start date of this TO, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TOCOR and appropriate contractor staff to clarify outstanding questions and to review specific tasks. The TOCOR will submit work requests via a Technical Directive Form. This form will be used as instructions to the Contractor and will be submitted with each request. Copies of all correspondence pertaining to the performance of this task order shall be sent to the CL-COR.

Within 3 days, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TOCOR and appropriate Contractor staff to clarify outstanding questions and to review additional tasks.

Delivery Schedule: Conference call scheduled within 3 days after receipt of task order.

Task 2: Manage, Identify and Recruit Experts to Support NCEA Health Assessment Activities

Specific direction will be provided by the EPA TOCOR through Technical Direction. It is expected that there will be approximately 15 separate requests for this task.

The Contractor shall identify, recruit and manage expert (“experts”) to develop sections of toxicological reviews and/or related materials. The Contractor shall be responsible for ensuring timely communication is passed between the EPA TOCOR and the experts so that technical clarification can be offered and interaction between EPA and the experts can occur as needed. The Contractor shall also ensure that the deliverables are provided to the EPA TOCOR in a timely manner.

EPA seeks to identify and recruit experts to develop several document sections/types for several different chemical assessments. Examples include:

- 1) Evaluation of exposure methods in studies;
- 2) Literature screening and study evaluations;
- 3) Evidence tables of specific health effects;
- 4) Graphical displays of evidence of specific health effects;
- 5) Other support (technical consultations, quantitative analysis support, white papers, etc.).

EPA will provide guidance (e.g., IRIS Handbook, chemical-specific screening guidance) and the appropriate templates for all tasks. The chemical assessments and related documents that will require assistance under this PWS will be clarified through technical direction.

The EPA assumes primary authorship in the writing process for all materials and contributing experts are listed in the final documents as appropriate. EPA will approve each of the experts performing work within two days of notification of a potential candidate.

Delivery Schedule: Deliverable schedule will be defined in the technical direction.

Subtasks

Identify and Recruit Expert

The Contractor shall identify and contact experts with a knowledge base that is aligned with the descriptions in each written TD. Each TD will specify the minimum/desired qualifications of the experts for that chemical assessment. The expertise needed will be specific to the broad field of epidemiology, toxicology, statistics, and/or pharmacokinetic modeling. Approximately 10 experts will be needed. Potential experts shall be asked to submit a bio-sketch to ensure they meet the minimum/desired qualifications, and EPA will notify the contractor of its concurrence with the selection. All approved experts will be required to be familiar with general QA practices of the Contractor, of EPA and any applicable project specific QAPPs. The contractor must certify that all approved experts have been provided with the appropriate QA guidance, QAPPs, and training by either EPA staff, the Contractor, or both in order to fulfill this requirement.

Manage Expert

The Contractor shall manage the recruited experts and ensure timely communication occurs between EPA and the experts. This shall involve setting up conference calls with the experts and EPA staff. In addition, the Contractor shall ensure that the written sections, comments and draft reviews are progressing on schedule and are delivered by the deadlines noted in this TO.

Deliverable Schedule: The schedule and specific expertise requested will be clarified within a TD.

IV. EPA CONTACT INFORMATION

Copies of all correspondence pertaining to the performance of this task order shall be sent to the CL-COR.

TOCOR

Dahnish Shams

202-564-2758

Shams.dahnish@epa.gov

Alt TOCOR

Geniece Lehmann

919-541-2289

Lehmann.geniece@epa.gov

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CP0D		7. ADMINISTERED BY (If other than Item 6) CP0D	
CP0D US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CP0D US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(x)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0191	
				10B. DATED (SEE ITEM 13) 06/18/2019	
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: DSHAMS

LIST OF CHANGES:

Reason for Modification: Other Administrative Action. The purpose for this modification is to correct the period of performance.

Period Of Performance Start Date changed from 18-JUN-19 to 26-JUL-19

Period Of Performance End Date changed from 17-JUN-20 to 25-JUL-20

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 07/30/2019

Previous edition unusable

NAME OF OFFEROR OR CONTRACTOR
 ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/26/2019 to 07/25/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00002		See Block 16C		PR-ORD-20-01291			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CPOD		CPOD		CPOD		CPOD	
CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x) 9A. AMENDMENT OF SOLICITATION NO.			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050				9B. DATED (SEE ITEM 11)			
				x 10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0191			
				10B. DATED (SEE ITEM 13) 06/18/2019			
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule				Net Increase:		\$206,240.87	
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X	D. OTHER (Specify type of modification and authority) Mutual Agreement of the Parties						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DSHAMS							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to extend the period of performance and to add funding to this task order.							
Period of Performance End Date changed from 25-JUL-20 to 25-JUL-21							
Total Amount for this Modification: \$206,240.87							
New Total Amount for this Version: \$378,245.87							
New Total Amount for this Award: \$378,245.87							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 07/01/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0191/P00002	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Obligated Amount for this Modification: \$206,240.87 New Total Obligated Amount for this Award: \$378,245.87</p> <p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Total Amount changed from \$172,005.00 to \$378,245.87 Obligated Amount for this Modification: \$206,240.87 Start Date Added : 07/26/2019 End Date Added : 07/25/2021</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 20-21-C-26D1000-000F84-2532-26A5C-2026D1C017-001 Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) C Budget Organization 26D1000 Program (PRC) 000F84 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D1C017-001</p> <p>Amount: \$206,240.87</p> <p>Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/26/2019 to 07/25/2021</p>				

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 06/20/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO:	
3. ORDER NO. 68HERC19F0193		4. REQUISITION/REFERENCE NO. PR-ORD-19-01092		a. NAME OF CONSIGNEE ORD NCEA DC	
5. ISSUING OFFICE (Address correspondence to) ORD/OARS/EMD/SAB				b. STREET ADDRESS US Environmental Protection Agency ORD NCEA William Jefferson Clinton Building 1200 Pennsylvania Ave NW Mail Code 8623P	
				c. CITY Washington	e. ZIP CODE 20460
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 9300 LEE HIGHWAY				REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050	Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORD NCEA PY1	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT	
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 06/19/2020	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: FMOREFIELD					
	Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$79,143.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$79,143.00
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711				17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature)

06/20/2019

ELECTRONIC SIGNATURE

23. NAME (Typed)

William M. Yates

TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 06/20/2019	CONTRACT NO. 68HERC19D0003	ORDER NO. 68HERC19F0193
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Admin Office: CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268 Period of Performance: 05/01/2019 to 04/30/2024</p> <p>TO-0010 Improving the data available from the LASSO climate change web application</p> <p>Accounting Info: 18-19-C-262W000-000FK6XR1-2532-26A5C-1 9262WC908-001 BFY: 18 EFY: 19 Fund: C Budget Org: 262W000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262WC908-001 Funding Flag: Complete Funded: \$49,143.00</p> <p>Accounting Info: 18-19-C-262W000-000FK8XPW-2532-26A5C-1 9262WC908-002 BFY: 18 EFY: 19 Fund: C Budget Org: 262W000 Program (PRC): 000FK8XPW Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262WC908-002 Funding Flag: Complete Funded: \$30,000.00</p>				79,143.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$79,143.00

PERFORMANCE WORK STATEMENT

Contract # 68HERC19D0003

TO 68HERC19F0193

Title: Improving the data available from the LASSO climate change web application

PERIOD of PERFORMANCE: Award to 12 months

I. PURPOSE

The purpose of this task order is to provide services to the U.S. Environmental Protection Agency's National Center for Environmental Assessment (NCEA), Exposure Analysis and Risk Characterization Group (EARCG) for revising and improving the Locating and Selecting Scenarios Online (LASSO) Web application.

II. OBJECTIVES

The objective of this Performance Work Statement (PWS) is to update and revise an EPA Web application called LASSO (Locating and Selecting Scenarios One), which is a tool that helps users understand, identify, and download climate change projections. The tool is unique in that it not only makes climate change data available in a variety of formats (scatterplots, maps, and spatial data), but provides guidance for approaches to identifying a subset of the numerous climate change projections available.

An initial version of the LASSO tool has been deployed to an EPA production environment and is publicly available. Work performed under this PWS will use that version of the LASSO web application as a starting point, and serve to enhance, improve, and expand the data, information, and workflow that make up the LASSO approach.

III. BACKGROUND

A significant portion of the EARCG research portfolio includes the development of tools and methods to assess the impacts of climate change on human health, air quality, water quality, and ecosystems. Within the United States, climate change is expected to contribute to a range of health impacts for vulnerable populations. The extent and nature of climate change impacts on human health vary by location, by the relative vulnerability of specific population groups, by the extent and duration of exposure to climate change (including, for example, heat and extreme weather events), and by society's ability to adapt to or cope with climate change.

As the study of climate change impacts and vulnerability continues to evolve, new and updated climate model outputs are being produced that incorporate the latest and best understanding of the climate system. Moreover, there are new and evolving methods for increasing the spatial resolution of these outputs ("downscaling"), further increasing the number of available climate change projections. While this new information plays a critical role in the assessment of potential climate change impacts, the volume and complexity of the information means that locating and identifying useful projections of climate change can be a confusing, laborious, and technically challenging task.

In most cases, potential climate change impacts are assessed by using a subset of available climate change projections, rather than the dozens of models and realizations that make up the complete ensemble. For

example, one obvious approach would be to identify and select those models that project the most and least amount of temperature change, with the understanding that expected impacts should fall somewhere in resulting range. Unfortunately, there are few tools available to inform this process in any way, leaving many interested parties with the question: “Which climate projection(s) should I use?”

An equally challenging barrier for many is the technical knowledge needed to parse, aggregate, or otherwise manipulate climate projection information. Many scientists and researchers possess a mature understanding of climate change issues, but lack the specific technical skills needed to navigate data formats common to climate data archives. This obstacle can be summed up by another question: “Where can I download the climate projection(s) I need?”

To address these two barriers, EARCG has developed a Web application that provides a simple interface to a large portion of available climate change projections. The LASSO tool leverages existing Web technologies and design principles to help interested users not only navigate large, online climate datasets, but also parsimoniously identify and acquire the information they need. A key audience for LASSO consists of people with only a modest understanding of climate change scenario frameworks (e.g., the Representative Concentration Pathways¹). Therefore, a particularly novel aspect of LASSO is the integration of easy-to-understand guidance and explanations of best practices. Unlike similar tools², LASSO is designed to not only make spatial climate data available to its users, but to aid in the process of identifying a reasonable subset of those data in a way that is logical, transparent, and reflective of generally accepted approaches.

IV. REQUIRED CONTRACTOR QUALIFICATIONS.

The Contractor shall provide demonstrated professional expertise in these areas:

1. Climate change scenarios – including the use, strengths, and limitations of scenario frameworks such as the Representative Concentration Pathways (RCPs)
2. Web development; specifically, interactive scientific Web applications

V. STATEMENT of WORK.

Task 1: Establish Communication, Cost Estimate, and Quality Assurance Project Plan

Within 3 days of award date of this TO, the Contractor shall schedule a conference call with the TOCOR and appropriate contractor staff to clarify outstanding questions and confirm the schedule and specific tasks. The Contractor shall prepare and submit a plan describing the project schedule, staffing, and hours required for completion of each task described in the Task Order, as well as an overall cost estimate for the work plan.

The contractor shall develop a quality assurance project plan (QAPP) for this task order for the Task Order Contracting Officer Representative (TOCOR) and QA manager approval. The work plan and the quality assurance project plan (QAPP) shall be submitted simultaneously for the TOCOR’s approval. **The contractor shall not perform any work under this task order until the quality assurance project plan is reviewed and approved by the TOCOR and QA Manager.** The QAPP shall be prepared in accordance with EPA QA/R-5 (EPA/240/B-01/003 *Requirements for Quality Assurance Project Plans* May 2006), to ensure that environmental and related data collected, compiled, and/or generated for this project are complete, accurate, and of the type, quantity, and quality required for their intended use. This Task Order does not involve direct measurement of environmental conditions, collection of environmental samples, or laboratory analysis. However, the tasks in the Task Order require compilation and formatting of data and implementation of

¹ http://sedac.ipcc-data.org/ddc/ar5_scenario_process/RCPs.html

² For example: http://maca.northwestknowledge.net/vis_scatterplot.php

environmental models and geospatial mapping applications. The QAPP should describe the approach and measures that will be implemented to ensure a high standard of quality in data analysis and written deliverables. EPA guidance for developing QAPPs for modeling is provided in EPA QA/G-5M (EPA, 2002) and for geospatial data in EPA QA/G-5G (EPA, 2003).

The contractor shall evaluate the task order and the materials provided by the EPA TOCOR and prepare the QA project plan and the work plan and cost estimates within 1 week after the receipt of the task order.

Deliverable 1.1. Initial Conference Call – to clarify outstanding questions and confirm the schedule and specific tasks **within 3 days of task order award**

Deliverable 1.2. The Contractor shall prepare and submit a plan and QAPP describing the project schedule, staffing, hours and QA activities required for completion of each task described in the Task Order, as well as an overall cost estimate for the work plan, **within 1 week from the Contractor's receipt of the PWS.**

Task 2: Routine and ongoing communication activities.

Within 1 week after task order award, the contractor shall meet with the EPA TOCOR for discussion regarding the scope and conduct of the plan and to address any questions or need for clarification or elaboration. The Contractor shall take brief minutes at this and subsequent meetings and teleconference calls and provide those minutes, including any action items, to the TOCOR as requested.

In collaboration with the TOCOR, the Contractor shall establish a schedule for regular progress reports, project meetings, and other communications throughout the period of performance of this TO. It is estimated that this TO will require regular meetings and/or conference calls with the TOCOR and appropriate Contractor staff. Throughout the course of the Work Plan, the Contractor shall inform the TOCOR of any developments that affect the conduct of the project or the schedule. All deliverables shall be sent electronically to the TOCOR.

Deliverable 2.1. Project Meeting. The Contractor shall schedule a kick-off meeting with the TOCOR to address the timeline for the PWS, the scope and conduct of the work plan and to address any questions or need for clarification or elaboration **within one week following the TOCOR's approval of the Work Plan.**

Deliverable 2.2. Routine Communications / Meetings. Project meetings and other communications, including updates via conference calls, are scheduled as required by the TOCOR or at the request of the Contractor for the duration of the task order. When needed, brief meeting minutes, including action items, shall be prepared by the Contractor and emailed to the TOCOR within **2 business days following all project meetings or conference calls.**

Task 3: Complete the addition of state-level climate data to LASSO

The Contractor shall update the LASSO application such that BCSD and LOCA climate data aggregated by state boundaries are available to the user. Changes to the application made under this task should preserve the general look, feel, and user experience of the current LASSO application. The underlying climate data will be provided by EPA in a format identical to the existing LASSO files.

Deliverable 3.1. The Contractor shall implement changes detailed in existing memo. Existing changes to the LASSO application completed in Task 5.1 of Contract # EP-C-14-001, WA 4-117 shall

be finalized, and the updated application shall be delivered to the EPA NCC staff with instructions for deployment on the staging environment. **This deliverable is due May 30th, 2019.**

Deliverable 3.2: The Contractor shall identify and implement updates and fixes needed for a final public release. The Contractor shall implement needed updates and fixes identified after the application has been deployed to the NCC staging environment. The updated application shall be delivered to the EPA NCC with instructions for deployment to the production environment. **This deliverable is due June 13th, 2019.**

Task 4: Add climate extremes to LASSO

The Contractor shall update the LASSO application to such that a minimum of two additional climate change metrics (e.g., maximum daily temperature, days with precipitation > 2 inches) are available to the user. Changes to the application made under this task should preserve the general look, feel, and user experience of the current LASSO application. The underlying climate data will be provided by EPA in a format identical to the existing LASSO files.

Deliverable 4.1: Memo describing proposed changes to the LASSO application to incorporate extreme climate metrics. This deliverable shall include a review of any comments, feedback, or user testing **This deliverable is due June 30th, 2019.**

Deliverable 4.2. The Contractor shall implement approved changes identified in Deliverable 5.1. The updated application shall be delivered to the EPA NCC staff with instructions for deployment on the staging environment. **This deliverable is due July 30th, 2019.**

Deliverable 4.3: The Contractor shall identify and implement updates and fixes needed for a final public release. The Contractor shall implement needed updates and fixes identified after the application has been deployed to the NCC staging environment. The updated application shall be delivered to the EPA NCC with instructions for deployment to the production environment. **This deliverable is due August 30th, 2019.**

VI. DELIVERABLE TIMELINE

<i>Task</i>	<i>Description</i>	<i>Deliverable Timeline</i>
TASK 1	Establish communication, work plan, cost estimate, and quality assurance	
1.1	Initial conference call	Within 3 days from the receipt of the PWS
1.2	Preparation of the work plan and cost estimate and QAPP	Within 1 week of the receipt of the TO
TASK 2	Routine and ongoing communication	
2.1	Project meeting: Project Kick-off Meeting with Contractor and TOCOR	Within 1 week of the TOCOR's approval of the Work Plan
2.2	Other routine communications and meetings	As needed per the request of the Contractor or of the TOCOR
TASK 3	Add state-level climate data to LASSO	
3.1	Implement changes; deliver app NCC staging	May 30 th , 2019
3.2	Deliver final app to NCC production	June 13 th , 2019
TASK 4	Add climate extremes to LASSO	
4.1	Memo describing proposed changes	June 30 th , 2019
4.2	Implement changes; deliver app to NCC staging	July 30 th , 2019
4.3	Deliver final app to NCC production	August 30 th , 2019

VII. MANAGEMENT CONTROLS

1. All deliverables shall be reviewed for conformance to the requirements of this task order before being approved as final.
2. The contractor shall comply with other applicable requirements for final task order reports stipulated in contract.

VII. NOTICE REGARDING GUIDANCE PROVIDED UNDER THIS PROJECT

Guidance is strictly limited to technical and analytical support. The contractor shall not engage in activities of an inherent governmental nature such as the following:

- (1) Formulation of Agency policy
- (2) Selection of Agency priorities
- (3) Development of Agency regulations

Should the contractor receive any instruction from an EPA staff person that the contractor ascertains to fall into any of these categories or goes beyond the scope of the contract or task order, the contractor shall immediately contact the PO, TOCOR or CO.

IX. SPECIAL CONDITIONS AND ASSUMPTIONS

The contractor shall hold a conference call with the EPA TOCOR at the initiation of the task order and shall provide a bi-weekly update to the TOCOR by telephone for the duration of the task order, in addition to the standard reporting requirements of the contract.

X. EPA CONTACT INFORMATION

Copies of all correspondence pertaining to the performance of this task order shall be sent to the TOCOR.

Task Order Contracting Officer Representative (TOCOR):

Phil Morefield
Telephone: 202-564-7549
FAX: 202-564-0296
Email: morefield.philip@epa.gov
Postal Address: 1200 Pennsylvania Ave, NW; Mail code 8623R; Washington, DC 20460
Physical Address: USEPA; Ronald Reagan Building; 1300 Pennsylvania Ave, NW, Rm 71252, Washington, D.C. 20004

Alternate Task Order Contracting Officer Representative (TOCOR):

Thomas Johnson
Telephone: 202-564-6677
FAX: 202-564-0296
Email: johnson.thomas@epa.gov
Postal Address: 1300 Pennsylvania Ave, NW; Mail code 8623R; Washington, DC 20460
Physical Address: USEPA; Ronald Reagan Building; 1300 Pennsylvania Ave, NW, Rm 71246, Washington, D.C. 20004

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				12	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.	
P00001		See Block 16C		5. PROJECT NO. (If applicable)	
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)	
ORD/OARS/EMD/SAB		ORD/OARS/EMD/SAB		CODE	
				CPOD	
				US Environmental Protection Agency	
				26 West Martin Luther King Drive	
				Mail Code: NWD	
				Cincinnati OH 45268	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x)		9A. AMENDMENT OF SOLICITATION NO.	
ICF Incorporated, L.L.C.					
Attn: Robert Toth				9B. DATED (SEE ITEM 11)	
9300 LEE HIGHWAY					
FAIRFAX VA 220316050				10A. MODIFICATION OF CONTRACT/ORDER NO.	
		x		68HERC19D0003	
				68HERC19F0193	
CODE		FACILITY CODE		10B. DATED (SEE ITEM 13)	
072648579				06/20/2019	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended.					
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
See Schedule					
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
CHECK ONE					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
DUNS Number: 072648579					
TOCOR: PMOREFIELD Max Expire Date: 06/19/2021					
LIST OF CHANGES:					
Reason for Modification: The purpose of this administrative modification will be to extend the period of performance until June 19, 2021.					
CHANGES FOR LINE ITEM NUMBER: 1					
End Date changed from 19-JUN-20 to 19-JUN-21					
Continued ...					
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
		William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
(Signature of person authorized to sign)				ELECTRONIC SIGNATURE	
				06/16/2020	
Previous edition unusable				STANDARD FORM 30 (REV. 11/2016)	
				Prescribed by GSA FAR (48 CFR) 53.243	

NAME OF OFFEROR OR CONTRACTOR
 ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/20/2019 to 06/19/2021				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY ORD/OARS/EMD/SAB		7. ADMINISTERED BY (If other than Item 6) CPD	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		9A. AMENDMENT OF SOLICITATION NO.		9B. DATED (SEE ITEM 11)	
10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0193		10B. DATED (SEE ITEM 13) 06/20/2019		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS	

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: PMOREFIELD Max Expire Date: 06/19/2021

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 10/07/2020

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0193/P00002	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/20/2019 to 06/19/2021				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors				<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders	
				<input type="checkbox"/>		10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/> (X)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 06/20/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO: a. NAME OF CONSIGNEE ORD/OARS/EMD/CIN	
3. ORDER NO. 68HERC19F0194		4. REQUISITION/REFERENCE NO. PR-ORD-19-01094			
5. ISSUING OFFICE (Address correspondence to) CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency OARS EMD Cincinnati Division 26 West Martin Luther King Drive Mail Code: WG-12	
				c. CITY Cincinnati	e. ZIP CODE 45268
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.					
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 9300 LEE HIGHWAY				<input type="checkbox"/> a. PURCHASE REFERENCE YOUR: _____ Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050	<input checked="" type="checkbox"/> b. DELIVERY Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORD NCEA PY1	
11. BUSINESS CLASSIFICATION (Check appropriate box(es))					
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 06/19/2020	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: DSHAMS Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$357,353.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$357,353.00
c. CITY Durham			d. STATE NC	e. ZIP CODE 27711		17(i) GRAND TOTAL	

22. UNITED STATES OF AMERICA BY (Signature)

06/20/2019

ELECTRONIC SIGNATURE

23. NAME (Typed)

William M. Yates

TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 06/20/2019	CONTRACT NO. 68HERC19D0003	ORDER NO. 68HERC19F0194
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Admin Office: CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268 Accounting Info: 19-20-C-262S000-000F84-2532-26A5C-19262SC908 -001 BFY: 19 EFY: 20 Fund: C Budget Org: 262S000 Program (PRC): 000F84 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262SC908-001 Period of Performance: 06/20/2019 to 06/19/2020 NEW HHRA Contract #TBD Task Order 0015				357,353.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$357,353.00

PERFORMANCE WORK STATEMENT
Contract No. 68HERC19D0003
Task Order 68HERC19F0194

Title: General Support of NCEA's Human Health Assessment Activities

Specify Section & Paragraph SOW: A. Assessment Issues and Documents

Period of PERFORMANCE: CO award – 12 Months

I. PURPOSE

The purpose of this task order is to provide services to the U.S. Environmental Protection Agency's (EPA) National Center for Environmental Assessment (NCEA), Office of Research and Development (ORD), in supporting the development of health assessments.

II. BACKGROUND

The Environmental Protection Agency's (EPA) National Center for Environmental Assessment (NCEA) provides scientific leadership for evaluating human health and ecological risks associated with exposure to physical, chemical, and biological stressors, including environmental pollutants. NCEA relies upon external experts to support its mandated function of effectively analyzing, synthesizing, and communicating information in support of EPA's mission to protect human health and the environment.

III. STATEMENT OF WORK

A. Objective

The objective of this task order is to assist the NCEA in developing toxicological reviews, health assessments, and other related assessment materials. Contractor support will be requested to assist in the development of products that contribute to the development of chemical assessments and inform risk management decisions in support of EPA's program and regional offices.

B. Specific Requirements (Tasks)

Task 1: Establish Communication

Within 3 days of the start date of this TO, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TOPO and appropriate contractor staff to clarify outstanding questions and to review specific tasks. The TOPO will submit the work requests via a Technical Directive Form. This form will be used as instructions to the contractor and will be submitted with each request. Copies of all correspondence pertaining to the performance of this task order shall be sent to the PO.

Within 3 days of modification, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TOPO and appropriate contractor staff to clarify outstanding questions and to review additional tasks.

Delivery Schedule: Conference call scheduled within 3 days after receipt of task order.

Task 2. Quality Assurance Project Plan (QAPP)

The Contractor shall develop a QAPP for this PWS. The QAPP shall be submitted for approval. The Contractor shall not perform any work under this PWS until the QAPP is reviewed and approved by the TOPO and Quality Assurance Manager.

The contractor must ensure that all data collected, generated or used are of the appropriate type and quantity needed and of known, documented, and adequate quality. This statement of applicability conforms to the Agency's requirements. The Contractor must submit a QAPP that addresses data generation, collection, use, and analysis. The QAPP should include a description of quality control checks to verify accuracy, completeness, and adherence to established format. The Contractor must address in the QAPP how existing data will be considered for the task order. Existing (secondary) data is defined as the use of data that was developed for a different purpose and includes data in the published literature. The QAPP shall be in conformance with EPA's *Requirements for Quality Assurance Project Plans* (EPA QA/R-5). Guidance for developing QAPPs that meet EPA specifications prepared for activities conducted by or funded by EPA, are available online at http://www.epa.gov/quality/qa_docs.html, see "[EPA Requirements for Quality Assurance Project Plans \(QA/R-5\)](#)".

The Contractor shall update the current Quality Assurance Project Plan (QAPP) to include the additional tasks.

Delivery Schedule: Due 15 days after issuance of the task order.

Task 3: Systematic Review Support of NCEA's Health Assessment Activities

Specific direction will be provided by the EPA TOPO through Technical Direction. It is expected that there will be approximately (5) technical directive for this task. For each technical directive, the Contract shall develop a workplan describing the proposed strategy and approach to address each technical directive.

Subtask 1. Literature searching

- Develop search strategies in close collaboration with the EPA assessment team and HERO staff (as needed).
- Perform and update electronic search using specified bibliographic databases listed in the IRIS Handbook and any other assessment-specific databases as needed.
- Use additional search strategies as identified in the IRIS Handbook, including (but not limited to), reviewing reference list of included studies, reviewing reference list of pertinent reviews or other assessments, or "forward" and "backward" searching based on articles identified as key studies.

Subtask 2. Screening references for relevance

- Conduct title/abstract (10,000 records) and full-text screening (2,000 records) with appropriate tagging of studies as outlined in the IRIS Handbook using DistillerSR software or similar software application. The tagging structure may need to be customized for each assessment (in consultation with EPA assessment team).
- Use machine-learning software tools as directed to expedite screening.
- Update HERO project page and HAWC project page (as needed) with chemical-specific tags.

Subtask 3. Developing literature inventories

- In consultation with EPA assessment team, summarize studies considered relevant after full-text review using DistillerSR forms or similar structured entry format.
 - For animal studies the following information are typically captured: chemical form (parent or metabolite), study type (e.g., acute, subchronic, developmental, etc.), duration of treatment,

route, species, strain, sex, dose or concentration levels tested, dose units, health system and specific endpoints assessed, and a summary of findings at the health system level (null or NOEL/LOEL with an indication of which specific endpoints were affected).

- For epidemiologic studies the following information are typically captured: chemical form, population type (e.g., general population-adult, occupational, pregnant women, infants and children, etc.), study type (e.g., cross-sectional, cohort, case-control), short free text description of study population, sex, major route of exposure (if known), description of how exposure was assessed, health system and specific outcome assessed, and a summary of findings at the health system level (null or an indication of any associations found and a description of how the exposure was quantified in the analysis). Instructions on which endpoints will under further analysis and extraction are also collected at this point.
- Literature inventories for mechanistic studies may also be needed but the specific format may be chemical-specific
- Provide EPA assessment team with excel files from SR review tools (e.g., DistillerSR) in a format that is appropriate for visualization of results in Tableau, Qlik Sense, or similar application.

Subtask 4. Study Quality Evaluation and Data Extraction

- Conduct study quality evaluation for human (500 records), animal (500 records), and mechanistic studies (50 studies) in HAWC (or other similar tool) deemed relevant for inclusion into a chemical assessment or associated product.
- Conduct data extraction into HAWC (or other similar tool) for human (125 records), animal (125 records), and mechanistic studies (12 studies) deemed relevant for inclusion into a chemical assessment or associated product.

Subtask 5. Documenting the methods, results, and literature search strategy

- In consultation with EPA assessment team, document the results of the activities undertaken described within this task. This may include:
 - Preparing method description of SR methods and results using an example or template provided by EPA;
 - Documenting search strings, results (number of citations), and date of searches;
 - Providing tabular summaries of the literature search strategy; and
 - Creating and revising literature search flow diagrams in power point and create literature inventory tree in HAWC.

Delivery Schedule: Deliverable schedule will be defined in the technical direction.

IV. EPA CONTACT INFORMATION

Copies of all correspondence pertaining to the performance of this task order shall be sent to the CL-COR.

TOCOR

Dahnish Shams

202-564-2758

shams.dahnish@epa.gov

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 3	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C		See Schedule			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD		CAD		CPOD		CPOD	
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x) 9A. AMENDMENT OF SOLICITATION NO.			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050				9B. DATED (SEE ITEM 11)			
				x 10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0194			
				10B. DATED (SEE ITEM 13) 06/20/2019			
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$912,924.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DSHAMS							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification is to add funding for the amended PWS.							
Total Amount for this Modification: \$912,924.00							
New Total Amount for this Version: \$1,270,277.00							
New Total Amount for this Award: \$1,270,277.00							
Obligated Amount for this Modification: \$912,924.00							
New Total Obligated Amount for this Award: \$1,270,277.00							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		10/03/2019	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0194/P00001	PAGE	OF
		2	3

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR LINE ITEM NUMBER: 1 Total Amount changed from \$357,353.00 to \$1,270,277.00 Obligated Amount for this Modification: \$912,924.00</p> <p>CHANGES FOR DELIVERY LOCATION: ORD/OARS/EMD/CIN Amount changed from \$357,353.00 to \$1,270,277.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-BT-69A-000CD6-2505-TC6EEBS-1969AC9042-001 Beginning FiscalYear 19 Ending Fiscal Year Fund (Appropriation) BT Budget Organization 69A Program (PRC) 000CD6 Budget (BOC) 2505 Job # (Site/Project) QT6E19ZZ Cost Organization TC6EEBS DCN-LineID 1969AC9042-001</p> <p>Amount: \$179,832.85</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-262S000-000F84-2532-26A5C-19262SC913-001 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 262S000 Program (PRC) 000F84 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 19262SC913-001</p> <p>Amount: \$672,102.15</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-262S000-000FK8XPW-2532-26A5C-19262SC913-002 Beginning FiscalYear 19 Ending Fiscal Year 20 Continued ...</p>				

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0194/P00001	PAGE	OF
		3	3

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

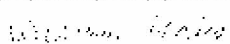
ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Fund (Appropriation) C Budget Organization 262S000 Program (PRC) 000FK8XPW Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 19262SC913-002 Amount: \$25,893.00 NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-262S000-000FK9-2532-26A5C-19262SC913-003 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 262S000 Program (PRC) 000FK9 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 19262SC913-003 Amount: \$35,096.00 CHANGES FOR ACCOUNTING CODE: 19-20-C-262S000-000F84-2532-26A5C-19262SC908-001 Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/20/2019 to 06/19/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
				1		2	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. See Schedule		5. PROJECT NO. (If applicable)	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		7. ADMINISTERED BY (If other than Item 6) CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268		CODE CPOD	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050				(x)			
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0194			
CODE 072648579		FACILITY CODE		10B. DATED (SEE ITEM 13) 06/20/2019			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule				Net Increase:		\$175,549.00	
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DSHAMS							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to execute the changes made to the Performance Work Statement and to fund those changes.							
Total Amount for this Modification: \$175,549.00							
New Total Amount for this Version: \$1,445,826.00							
New Total Amount for this Award: \$1,445,826.00							
Obligated Amount for this Modification: \$175,549.00							
New Total Obligated Amount for this Award: \$1,445,826.00							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 03/25/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0194/P00002	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Obligated Amount for this Modification: \$175,549.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 20-21-B-69A-000CD6-2505-TC6EEBS-2069AC2029-001 Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) B Budget Organization 69A Program (PRC) 000CD6 Budget (BOC) 2505 Job # (Site/Project) QT6E19ZZ Cost Organization TC6EEBS DCN-LineID 2069AC2029-001</p> <p>Amount: \$150,000.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 20-21-C-26D1000-000F84-2532-26A5C-2026D1C007-001 Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) C Budget Organization 26D1000 Program (PRC) 000F84 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D1C007-001</p> <p>Amount: \$25,549.00</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/20/2019 to 06/19/2020</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00003		See Block 16C		PR-ORD-20-00680			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD				CP0D			
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				CP0D US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0194			
				10B. DATED (SEE ITEM 13) 06/20/2019			
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$179,907.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DSHAMS							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to exercise year two of this amended requirement and to add funding for this action.							
Total Amount for this Modification: \$179,907.00							
CHANGES FOR LINE ITEM NUMBER: 1							
Total Amount changed							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Electronic Signature of Contracting Officer)		03/26/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0194/P00003	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Obligated Amount for this Modification: \$179,907.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 20-21-C-26D1000-000F84-2532-26A5C-2026D1C007-001 Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) C Budget Organization 26D1000 Program (PRC) 000F84 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D1C007-001</p> <p>Amount: \$179,907.00</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/20/2019 to 06/19/2020</p>				

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 06/20/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO:	
3. ORDER NO. 68HERC19F0195		4. REQUISITION/REFERENCE NO. PR-ORD-19-00774		a. NAME OF CONSIGNEE ORD/OARS/EMD/CIN	
5. ISSUING OFFICE (Address correspondence to) CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency OARS EMD Cincinnati Division 26 West Martin Luther King Drive Mail Code: WG-12	
				c. CITY Cincinnati	e. ZIP CODE 45268
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 9300 LEE HIGHWAY				REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050	Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORD NCEA PY1	
11. BUSINESS CLASSIFICATION (Check appropriate box(es))					
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
12. F.O.B. POINT					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 06/19/2020	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: DSHAMS					
	Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$80,437.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$80,437.00
c. CITY Durham				d. STATE NC	e. ZIP CODE 27711		17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature)

06/20/2019

ELECTRONIC SIGNATURE

23. NAME (Typed)

William M. Yates

TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 06/20/2019	CONTRACT NO. 68HERC19D0003	ORDER NO. 68HERC19F0195
-----------------------------	-------------------------------	----------------------------

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Admin Office: CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268 Period of Performance: 06/20/2019 to 06/19/2020 NEW HHRA Contract #TBD Task Order 0004 Accounting Info: 19-20-C-262S000-000F84-2532-26A5C-1926 2SC903-001 BFY: 19 EFY: 20 Fund: C Budget Org: 262S000 Program (PRC): 000F84 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262SC903-001 Funding Flag: Complete Funded: \$76,320.17				76,320.17	
0002	We need to add an additional \$4,116.83 to fully fund the Task Order Accounting Info: 19-20-C-262S000-000F84-2532-26A5C-1926 2SC903-002 BFY: 19 EFY: 20 Fund: C Budget Org: 262S000 Program (PRC): 000F84 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262SC903-002 Funding Flag: Complete Funded: \$4,116.83				4,116.83	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$80,437.00

PERFORMANCE WORK STATEMENT
Contract No. 68HERC19D0003
Task Order 68HERC19F0195

Title: General Support of the Health Assessment Workplace Collaborative (HAWC)

Specify Section & Paragraph SOW: A. Assessment Issues and Documents

Period of PERFORMANCE: CO award – [One Year After Award]

I. PURPOSE

The purpose of this task order is to provide services to the U.S. Environmental Protection Agency's (EPA) National Center for Environmental Assessment (NCEA), Office of Research and Development (ORD), in supporting the development of the Health Assessment Workplace Collaborative (HAWC) application.

II. BACKGROUND

EPA NCEA provides scientific leadership for evaluating human health and ecological risks associated with exposure to physical, chemical, and biological stressors, including environmental pollutants. NCEA relies upon databases and tools to execute its mandated function of effectively analyzing, synthesizing, and communicating information in support of EPA's mission to protect human health and the environment. One of those tools is the Health Assessment Workplace Collaborative (HAWC) application.

HAWC is a collaboration of several individuals and organizations who create, maintain, and enhance the functionalities of this tool. The lead developer of the project was Andy Shapiro, who created the prototype in partial fulfillment of the requirements for the degree of Master of Science in Public Health in the Department of Environmental Sciences and Engineering at the University of North Carolina at Chapel Hill under direction of Dr. Ivan Rusyn. Overall guidance on HAWC development is provided by a steering committee with representation from the National Toxicology Program at the National Institute of Environmental Health Sciences (NIEHS/NTP), Texas A&M University, and the National Center for Computational Toxicology of the Environmental Protection Agency (EPA/NCCT).

III. STATEMENT OF WORK

A. Objective

The HAWC database is changing daily as users add more data to assessments. The objective of this task order is to assist NCEA in developing the Health Assessment Workplace Collaborative (HAWC) application to serve the needs of EPA in producing health assessments.

B. Specific Requirements (Tasks)

Task 1: Establish Communication

Within 3 days of the start date of this TO, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TOCOR and appropriate contractor staff to clarify outstanding questions and to review specific tasks. The TOCOR will submit the work requests via a "ticket." Approved tickets will be confirmed via email to the

Contractor and will be submitted with each request. Copies of all correspondence pertaining to the performance of this task order shall be sent to the CL-COR.

Within 3 days of any modification, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TOCOR and appropriate contractor staff to clarify outstanding questions and to review additional tasks.

Delivery Schedule: Conference call scheduled within 3 days after receipt of task order.

Task 2. Quality Assurance Project Plan (QAPP)

The Contractor shall develop a QAPP for this PWS. The QAPP shall be submitted for approval. The Contractor shall not perform any work under this PWS until the QAPP is reviewed and approved by the TOCOR and Quality Assurance Manager.

The contractor must document in the QAPP details regarding application testing procedures and test results, document and validate source code as well as code version, document testing acceptance criteria, and verify the results are correct. (See these documents: "EPA Manual C/0 2105-P-01-0: EPA Quality Manual for Environmental Programs" and "EPA Requirements for Quality Assurance Project Plans (QA/R-5)"). The QAPP should contain all of the sections outlined in the EPA Requirements (QA/R-5) document. Section B headings can be edited to document software-specific quality assurance.

Delivery Schedule: Due 15 days after issuance of the task order.

Task 3: Support and Maintenance of HAWC

The Contractor shall provide support for the Health Assessment Workplace Collaborative (HAWC) application by maintaining code, fixing bugs, and developing new features. The Contractor shall provide the appropriate expertise to support ongoing HAWC development. The Contractor shall manage, identify, and recruit experts to support this task, as needed. Specific tasks EPA needs completed will be captured in "ticket" requests. The contractor shall identify, in coordination with EPA, project management tool, to manage and track tickets. Under this scheme, EPA staff will add ticket requests to Trello (or a similar software application), where the EPA TOCOR or Alternate TOCOR will approve the ticket and direct the contractor to initiate work on the ticket. ICF will address the approved tickets and will indicate when tickets are complete so the EPA TOCOR and Alternate TOCOR contact can close out requests in the internal EPA ticketing system for HAWC.

The Contractor shall classify EPA tickets as high, medium, and low level of effort items. Example tasks for each of these three categories include the following.

- High level of effort - Creating new dosing regimens without creating new animal groups
- Medium level of effort - Adding risk of bias overall confidence sorting to all visuals
- Low level of effort - Adding "NA" as an option for the variance of an endpoint

The Contractor shall classify these tickets based on their priority level. As directed by the EPA TOCOR/Alt TOCOR, the Contractor should anticipate completing high priority tickets first, and focusing on longer-term ticket requests classified as low and medium level of effort. For the purposes of estimating costs, the Contractor should assume:

	High Priority Tickets	Lower Priority Tickets	Total Tickets
High Level of Effort	4	0*	4
Medium Level of Effort	5	16	21
Low Level of Effort	5	5	10
Total	14	21	35

*The contractor shall not anticipate completing lower priority and high level of effort tickets prior to the end of work TO period of performance.

The Contractor will perform unit tests on all Python and JavaScript code using PyTest or a JavaScript unit testing framework chosen by the EPA where feasible. Alternatively, the Contractor will perform integration tests using Selenium. The Contractor will take additional steps based on these tests:

- For code that breaks existing tests, the Contractor will provide:
 - A detailed explanation of why the new code needs to break the old test; and
 - If appropriate, a modification of the test so that it passes in the new environment.
- For code that the Contractor cannot test due to technical limitations, the Contractor will provide:
 - A detailed explanation of why ICF cannot test the code.

IV. EPA CONTACT INFORMATION

Copies of all correspondence pertaining to the performance of this task order shall be sent to the CL-COR.

TOCOR
 Dahnish Shams
 202-564-2758
shams.dahnish@epa.gov

Alt TOCOR
 Shane Thacker
 919-541-5159
Thacker.shane@epa.gov

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CPOD		CPOD		CPOD		CPOD	
CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0195			
				10B. DATED (SEE ITEM 13) 06/20/2019			
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Decrease:		-\$80,437.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DSHAMS							
LIST OF CHANGES:							
Reason for Modification: This will be a "Fix" mod and part one of a two part process to correct duplicate lines of accounting for this task order. This mod will help correct duplicate lines of accounting so that the EAS system and the Compass Data Warehouse systems can match up with the financial data. In order to complete this action, this mod will also de-obligate the funding in the EAS system to allow the programmatic financial officer to combine the lines of accounting. This action will allow the follow-up mod to this action to reflect the correct line(s) of accounting so that the EAS system will reflect the funding in the Compass Data Warehouse system.							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				(Signature of Contracting Officer)			

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
68HERC19D0003/68HERC19F0195/P00001PAGE OF
2 2NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Total Amount for this Modification: -\$80,437.00</p> <p>CHANGES FOR LINE ITEM NUMBER: 2 Total Amount changed from \$4,116.83 to \$0.00 Obligated Amount for this Modification: -\$4,116.83</p> <p>CHANGES FOR ACCOUNTING CODE: 19-20-C-262S000-000F84-2532-26A5C-19262SC903-002 Amount changed from \$4,116.83 to \$0.00 Percent changed from 100 to 0</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Total Amount changed from \$76,320.17 to \$0.00 Obligated Amount for this Modification: -\$76,320.17</p> <p>CHANGES FOR ACCOUNTING CODE: 19-20-C-262S000-000F84-2532-26A5C-19262SC903-001 Amount changed from \$76,320.17 to \$0.00 Percent changed from 100 to 0</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/20/2019 to 06/19/2020</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00002		See Block 16C		PR-ORD-19-00774			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CPOD		CPOD		CPOD		CPOD	
CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				9A. AMENDMENT OF SOLICITATION NO.			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050				(x)			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0195			
CODE 072648579		FACILITY CODE		10B. DATED (SEE ITEM 13) 06/20/2019			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$80,437.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DSHAMS							
LIST OF CHANGES:							
Reason for Modification: This modification is part two of the "Fix" mod to correct duplicate lines of accounting for this task order. This mod will put the PR back on this task order with the duplicate lines of accounting now corrected and will align the EAS system with the Compass Data Warehouse system.							
Total Amount for this Modification: \$80,437.00							
New Total Amount for this Version: \$80,437.00							
New Total Amount for this Award: \$80,437.00							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 06/26/2019	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0195/P00002	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Obligated Amount for this Modification: \$80,437.00</p> <p>New Total Obligated Amount for this Award: \$80,437.00</p> <p>0</p> <p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Total Amount changed from \$0.00 to \$80,437.00</p> <p>Obligated Amount for this Modification: \$80,437.00</p> <p>CHANGES FOR DELIVERY LOCATION: ORD/OARS/EMD/CIN Amount changed from \$0.00 to \$80,437.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-262S000-000F84-2532-26A5C-19262SC903-001 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 262S000 Program (PRC) 000F84 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 19262SC903-001 Quantity: 0 Amount: \$80,437.00 Percent: 0 Subject To Funding: N</p> <p>Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Period of Performance: 06/20/2019 to 06/19/2020</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00003		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CP0D		7. ADMINISTERED BY (If other than Item 6) CP0D	
CP0D US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CP0D US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(x)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0195	
				10B. DATED (SEE ITEM 13) 06/20/2019	
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: DSHAMS

LIST OF CHANGES:

Reason for Modification: The purpose of this administrative modification is to incorporate the following statement:

Representation of Limited Rights Data and Restricted Computer Software

ICF has reviewed the task order requirements for the delivery of technical data or computer software and states the following: Data proposed for fulfilling the task order data
Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 03/26/2020

Previous edition unusable

STANDARD FORM 30 (REV. 11/2016)
Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0195/P00003	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>delivery requirements qualify as limited rights data or restricted computer software and are identified as follows, consistent with ICF's original representation and declaration at the solicitation stage:</p> <p>{ ICF's automated data management system referred to as litstream™ (formerly DRAGON) supports systematic reviews of scientific literature and can be used as a tool to help manage the results of literature searches.</p> <p>{ ICF's tool referred to as DoCTER can be used to help analyze the large result sets returned by literature searches using natural language process with clustering, machine learning and deep learning algorithms.</p> <p>{ With the exception of the limited license rights granted in the resulting contract, ICF or its licensors retains any and all ownership, title, interest, etc., in listream™, DoCTER, or related intellectual property, including, but not limited to, any supporting applications such as API webservises enabling communication with external data systems or any resulting modifications or feature enhancements within existing applications to support the task order data delivery requirements.</p> <p>Payment:</p> <p>RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Period of Performance: 06/20/2019 to 06/19/2020</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 2	
2. AMENDMENT/MODIFICATION NO. P00004		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0195	
				10B. DATED (SEE ITEM 13) 06/20/2019	
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: DSHAMS

LIST OF CHANGES:

Reason for Modification: The purpose of this administrative mod is to add 3-Months to the ending date of the period of performance in order to complete the ongoing expert activities related to PCBs, MeHg, and PFAS.

Period Of Performance End Date changed from 19-JUN-20 to 19-SEP-20

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 05/13/2020

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0195/P00004	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/20/2019 to 09/19/2020				

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 06/25/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO: a. NAME OF CONSIGNEE US Environmental Protection Agency	
3. ORDER NO. 68HERC19F0199		4. REQUISITION/REFERENCE NO. See Schedule			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS National Exposure Research Lab 109 T.W. Alexander Drive	
				c. CITY Research Triangle Park	e. ZIP CODE 27709
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
c. STREET ADDRESS 9300 LEE HIGHWAY				Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORD NCEA PY1	

11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB				12. F.O.B. POINT	
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 10 Days After Notice to Proceed	
16. DISCOUNT TERMS					

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: DHSIEH Max Expire Date: 06/24/2020 Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$140,928.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$140,928.00
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711				17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature) 06/25/2019

23. NAME (Typed)
William M. Yates
TITLE: CONTRACTING/ORDERING OFFICER

ELECTRONIC SIGNATURE

ORDER FOR SUPPLIES OR SERVICES

PAGE NO

SCHEDULE - CONTINUATION

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER	CONTRACT NO.	ORDER NO.
06/25/2019	68HERC19D0003	68HERC19F0199

ITEM NO.	SUPPLIES/SERVICES	QUANTITY ORDERED	UNIT	UNIT PRICE	AMOUNT	QUANTITY ACCEPTED
(a)	(b)	(c)	(d)	(e)	(f)	(g)
0001	<p>Admin Office: CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268</p> <p>Period of Performance: 06/25/2019 to 06/24/2020</p> <p>NEW Human Health Risk Assessment Contract #TBD 68HE0C18R001 - TO-0008 OPP AD/HED Tech Support: The funding with provide HED with 438 Labor Hours that will support Statistical Analysis; Quick Response; HSRB support AHETF closed system; SAS support for REJV queries; SAS support for pesticide residue modeling; dietary exposure modules; epidemiology study review; analysis of decomposition procedures and probabilistic assessments; SAP recommendations for efficacy testing; quick response; and project management. POP 5/1/2019 thru 4/30/2020 Requisition No: PR-OCSPP-19-00240, PR-ORD-19-00973</p> <p>Accounting Info: 19-P-32JP01N-000CJ1-2505-QF320100-1932 HED017-001 BFY: 19 Fund: P Budget Org: 32JP01N Program (PRC): 000CJ1 Budget (BOC): 2505 Job #: QF320100 DCN - Line ID: 1932HED017-001 Funding Flag: Complete Funded: \$77,538.70</p> <p>Accounting Info: 19-20-B-32AP16Y-000CJ1-2505-QP320200-1 932AD0018-001 BFY: 19 EFY: 20 Fund: B Budget Org: 32AP16Y Program (PRC): 000CJ1 Budget (BOC): 2505 Job #: QP320200 DCN - Line ID: 1932AD0018-001 Funding Flag: Complete Funded: \$63,389.30</p>				140,928.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$140,928.00

**PERFORMANCE WORK STATEMENT
TECHNICAL SUPPORT FOR HUMAN HEALTH
RISK ASSESSMENT
TO 68HERC19F0199**

I: TITLE: OPP AD Tech Support Human Health Risk Assessment

II: BACKGROUND

Pesticides are chemicals that are deliberately introduced into the environment for a specific purpose. As specified by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Federal Food, Drug, and Cosmetic Act (FFDCA) as amended by the Food Quality Protection Act (FQPA) and as modified by the Pesticide Registration Improvement Act (PRIA), a pesticide may be registered if its use will not result in unreasonable risks or unreasonable adverse effects to human health or the environment. The risks in this case are a combination of the inherent toxicity of the pesticide and the extent to which people are exposed to it. The goal of risk assessment is to provide an accurate and realistic picture of risks associated with human exposure to the pesticide. Companies which register pesticides (registrants) submit studies to the Environmental Protection Agency (EPA) that characterize and quantify the potential toxicity of pesticides and human exposures resulting from prescribed use of a given pesticide product. Submitted exposure studies, may focus on either occupational (e.g., mixer/loader/applicator or post-application/reentry) or on residential exposures, are used by EPA for calculation of total body exposure for a given pesticide-use scenario. Toxicity studies may focus on the elaboration and quantification of potential health effects of pesticides typically using animal models.

The Human Studies Review Board (HSRB or Board) is a Federal advisory committee operating in accordance with the Federal Advisory Committee Act (FACA) 5 U.S.C. App.2 § 9. The HSRB provides advice, information, and recommendations on issues related to scientific and ethical aspects of human subjects research which is a critical consideration if humans are involved in either toxicological or exposure research and EPA intends to use that research in an evaluation of a chemical. The major objectives are to provide advice and recommendations on: a. research proposals and protocols; b. reports of completed research with human subjects; and c. how to strengthen EPA's programs for protection of human subjects of research. The HSRB reports to the EPA Administrator through EPA's Science Advisor.

Before relying on the human studies data, EPA must evaluate submitted studies to determine their adequacy according to HSRB procedures if applicable. HSRB procedures, should they apply, require studies are submitted for review through the HSRB and that EPA address any questions or concerns the HSRB may have with the data. Meeting minutes, reports, and past evaluations are provided on EPA's HSRB website: <http://www.epa.gov/hsrb/>

III: PURPOSE

The purpose of this procurement is to provide technical expertise for the review and evaluation of various types of data to assist EPA in meeting its legislative mandates. To support EPA's OPP, the contractor shall, upon request, perform a full review and evaluate various data submitted to support pesticide registration.

The contractor shall supply the necessary resources required for the performance of this contract. The scientific quality of reviews, assessments, reports, model tools, statistical programs and software, and their timely preparation in accordance with negotiated schedules, are of paramount importance in the performance of this contract.

IV: GENERAL REQUIREMENTS

To perform task orders under this contract, the contractor may require access to FIFRA Confidential Business Information (FIFRA CBI) submitted by pesticide registrants to EPA. Disclosure of FIFRA CBI to contractors is provided for under Section 10(e) of FIFRA and in 40 CFR 2.307. Consequently, the contractor must be cleared for access to FIFRA CBI and must control FIFRA CBI according to the requirements specified for contractors in the EPA publication, "FIFRA Information Security Manual", dated July 1988. Access of the contractor to FIFRA CBI is intermittent and will not require allocation of office space. Identification of contractor personnel will be made by EPA while on site at EPA.

Control measures for protecting FIFRA CBI shall be in accord with the following sections of the Security Manual:

- "Disclosure of FIFRA CBI to contractors," Section 3;
- "Procedures for Gaining Access to FIFRA Sensitive Information," Section 4; and
- "Operational Procedures for Protecting FIFRA Sensitive Information," Section 5.

The contract, as written, shall incorporate certain clauses that describe actions to be taken by the contractor with regard to FIFRA sensitive information; these clauses are contained in **40 CFR 2.301 (h)(23)(ii)**, and are Exhibit 6 in the Security Manual.

In evaluating and performing services required under this Task Order (TO), the contractor shall submit all relevant information used in developing conclusions or options to the cognizant Task Order Contracting Officer Representative (TOCOR) for all projects for review and approval.

All reports, drafts, papers etc. prepared by the contractor shall be submitted in draft form. The contractor shall submit the competed draft to the TOCOR for review and approval. The drafts submitted shall include copies of the literature cited or make reference to all citations in the document for TOCOR verification and approval.

When in attendance at meetings, the contractor's attendance shall be limited to that portion of the activity for which the contractor is required in order to meet the requirements of the SOW. The contractor personnel shall identify themselves as contractor personnel in all activities associated with work performed under the SOW, and in attendance at meetings in conjunction with activities with the SOW requirements.

Reports submitted by the contractor that contain recommendations to the Agency (which will be used by EPA personnel in developing policy), will explain and rank policy or action alternatives, if any; describe the procedures used to arrive at recommendations, summarize the substance of deliberation; report any dissenting views; list the sources relied upon; and make clear the methods and considerations upon which the recommendations are based.

V: SCOPE OF WORK

The contractor shall supply the necessary labor, materials, equipment, services and facilities (except as otherwise specified) required for the performance of each task order. The scientific quality of assessments and reports and their timely preparation in accordance with negotiated schedules are of paramount importance in the performance of this contract. Consequently, the contractor shall have the necessary technical and scientific

knowledge and experience to work effectively from contract start-up and throughout the course of the contract. In addition, the contractor shall have a Quality Assurance (QA) / Quality Control (QC) program that maintains the quality of products. Performance of work under this WA will encompass tasks in statistical evaluation of data pertinent to the EPA risk assessment process including exposure and toxicology data.

VI: SPECIFIC AREAS OF WORK

The Contractor shall provide all technical support within the scope of this Performance Work Statement (PWS). The Contractor shall perform tasks, as specified by individual task orders issued by the Contract Officer (CO), in the following program areas: Statistical Review and Analysis of Human Health Exposure and Toxicity Data

The task(s) which will be issued through task orders require expertise in statistics, biostatistics, and mathematical simulation and modeling. For many tasks, scientific needs are highly specialized, requiring expert personnel having the knowledge and ability to fully and critically evaluate study methodologies and results in the technical disciplines identified above. Analyses must be scientifically sound and sufficiently documented to withstand intensive critical examination and review by other experts in the relevant disciplines.

TASK 1: PROJECT MANAGEMENT

The Contractor shall provide a Project Manager. The Contractor Project Manager shall report on all aspects of the objectives and progress of this contract to the designated CO and CORs via email, through monthly reports. The Project Manager plans, conducts and supervises Task Order projects, necessitating advanced knowledge and the ability to originate and apply new and unique methods and procedures. The Project Manager provides technical advice and counsel to other professionals. The Contractor Project Manager shall notify via email the relevant COR/ACOR or Task Order COR of any significant difficulties in accomplishing the task listed in the Task Orders.

TASK 2: STATISTICAL ANALYSIS SUPPORT

The contractor shall provide statistical support for analyses of exposure and toxicology data pertinent for human health risk assessment of pesticides. For example, the contractor shall review and analyze statistical methods for assessing unit exposures for dermal and inhalation monitoring data for pesticide applicators as well as data associated with a variety of toxicology studies to potentially include toxico-kinetic and other modelling exercises.

Verification of the statistical analysis is an integral part of the data evaluation process. As such, contractors shall routinely analyze, report, interpret, and summarize statistical results including but not limited to: basic summary statistics, parametric and non-parametric hypothesis testing (e.g. Dunnett's test, Williams'/Shirley test, Jonckheere-Terpstra test, etc.), and linear and nonlinear regressions. Types of statistical analyses and reporting also include, but are not limited to, exposure task force (e.g., Agricultural Handler Exposure Task Force and Antimicrobial Exposure Assessment Task Force) monitoring objective of a relative 3-fold accuracy (i.e., geometric mean, arithmetic mean, and 95th percentile be accurate within 3-fold with 95 percent confidence); reviewing sample size and study design; calculating normalized unit exposures using and comparing empirical estimates, simple random sample estimates, as well as a hierarchical variance component modeling estimates; testing the exposure results for proportionality between exposure and pounds of active

ingredient handled including the threshold associated with amount handled; and evaluation of dose response data from toxicological research.

Evaluations shall state which methods of statistical comparison were used and why the methods were appropriate regardless of the type of data evaluated. They shall also include explanations about the relationship between the doses of the test substance and the presence or absence, incidence, and extent of any type of trend or effect. The contractor shall be able to provide both basic and advanced statistical support for all types of environmental data. Additional examples of statistical support include Bayesian and probabilistic, design of experiments, power analysis, mixed models, time series analysis, multivariate statistics, and categorical data analysis. As requested by the Contractor Officer's Representative (COR), the contractor shall provide feedback and recommendations to the Agency pertaining to the appropriate use and application of various statistical methodologies.

Determine exposure or potential exposure from pollution/contaminant sources (including background levels) by evaluating measured or modeled biological, chemical, or physical concentrations or gradients at the interface between an organism and an environmental medium of concern, as specified in individual task orders. Estimate internal doses and target organ doses of chemicals. Evaluation of PBPK modeling approaches using a computer language such as "R" may also be required.

The contractor shall also have experience using data analysis software such as SAS for pesticide residue modeling. The contractor shall be able to provide statistical support regarding dietary exposure models and protocol/study reviews.

TASK 3: QUICK RESPONSE AND AGENCY INTERFACE ACTIVITIES

The contractor shall provide quick turn-around support for special requests by EPA as defined in previous tasks. The contractor shall provide support for special requests by EPA. Quick response tasks may include, but are not limited to, updating NHANES (National Health and Nutrition Examination Survey) assessments, reviewing/commenting on statistical analyses performed in scientific publications, activities involving EPA's interface with other Governmental agencies, providing input on best statistical methods to be used in human health risks assessments, and any other quick-response requests from EPA to the extent that such requests are feasible and relate to this Statement of Work.

VII. DELIVERABLES

- A. Task Reports:** All reports, documents, papers, and data end-points etc., prepared/compiled by the contractor shall be submitted electronically in draft form using agency standard software, science industry standard software, and/or OPP science data repository/workflow portal, or other storage media as specified in the task assignment. The contractor shall provide the reviews in electronic format (MS Word and/or PDF) delivered by email or other electronic portal or as CD or flash drive, and in hard copy if requested by the TOCOR, COR or CO.
- B. Other Services:** In performing the services required under this PWS, the contractor shall submit all relevant information used in developing conclusions or options to the COR for all projects for evaluation review and approval. All software and databases developed or enhancements or modifications of existing software or databases performed under this contract; all documentation, notes, preceding versions; all other

material pertaining to the development, enhancement, modification and testing of the software and/or databases; and all information and data populating associated databases shall be the property of the agency; will be delivered to the agency upon request or at completion of the task; and cannot be used by the contractor for any other purpose than that specified in a task order without prior written permission by the CO.

VIII: TASK ORDER CONTRACTING OFFICER REPRESENTATIVE

Diana Hsieh
Risk Assessment and Science Support Branch, AD, OPP
U.S. Environmental Protection Agency
2777 South Crystal Drive
Arlington, VA 22202
Ph: 703-347-0296
Fx: 703-308-8481
Email: Hsieh.diana@epa.gov

Alternate Task Order Contracting Officer Representative:

Lori Brunsman
U.S. Environmental Protection Agency
2777 South Crystal Drive
Arlington, VA 22202
Science Information and Management Branch, HED, OPP
Ph: 703-308-2902
Email: Brunsman.lori@epa.gov

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD		CAD		CPOD		CPOD	
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				9A. AMENDMENT OF SOLICITATION NO.			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050				(x)			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0199			
CODE		FACILITY CODE		10B. DATED (SEE ITEM 13)			
072648579				06/25/2019			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DHSIEH Max Expire Date: 06/24/2020							
LIST OF CHANGES:							
Reason for Modification: The purpose of this administrative modification will be to extend the period of performance by 12 months. All other conditions remain the same.							
Period of Performance End Date changed from 24-JUN-20 to 24-JUN-21							
CHANGES FOR LINE ITEM NUMBER: 1							
End Date changed from 24-JUN-20 to 24-JUN-21							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 06/24/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0199/P00001	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 06/25/2019 to 06/24/2021				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CAD		7. ADMINISTERED BY (If other than Item 6) CPD	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		9A. AMENDMENT OF SOLICITATION NO.		9B. DATED (SEE ITEM 11)	
10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0199		10B. DATED (SEE ITEM 13) 06/25/2019			
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
DUNS Number: 072648579
TOCOR: DHSIEH Max Expire Date: 08/27/2020
Payment:
RTP Finance Center
US Environmental Protection Agency
RTP-Finance Center (AA216-01)
109 TW Alexander Drive
www2.epa.gov/financial/contracts
Durham NC 27711
Period of Performance: 06/25/2019 to 08/27/2020

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 10/21/2020